IPERCERAMICA - FIORANO MODENESE

NEW HEADQUARTERS FOR IPERCERAMICA, IN FIORANO MODENESE, CREATED BY SISTEM COSTRUZIONI, THE ITALIAN ART OF WOOD

The new Iperceramica headquarters is under construction in Fiorano Modenese, covering a total area of 1700 square meters. The structure is made from a heavy laminated wood frame, with Xlam floors. This solution has made it possible to create extremely functional spaces endowed with great comfort of the internal environments, with remarkable energetic and anti-seismic properties. Location: Fiorano Modenese (MO) Year: 2018 - 2020 Typology: order Client: Bayker Italia / Iperceramica Surface: 1700 sq.m. Project: Mario Cucinella Architect Team: Mario Cucinella, Michele Roveri with Giovanni Sanna, Silvia Conversano Structural Project: Maffeis Engineering Spa Plant design: STEP Engineering Srl Fire prevention project: IDF Ingegneria Construction works coordination: Bayker Technical Office Visual: Nicola Magri, Francesco Naimoli Photo credit: Giovanni De Sandre for Mario Cucinella Architects Press release

PRODUCT SPECIFICATION

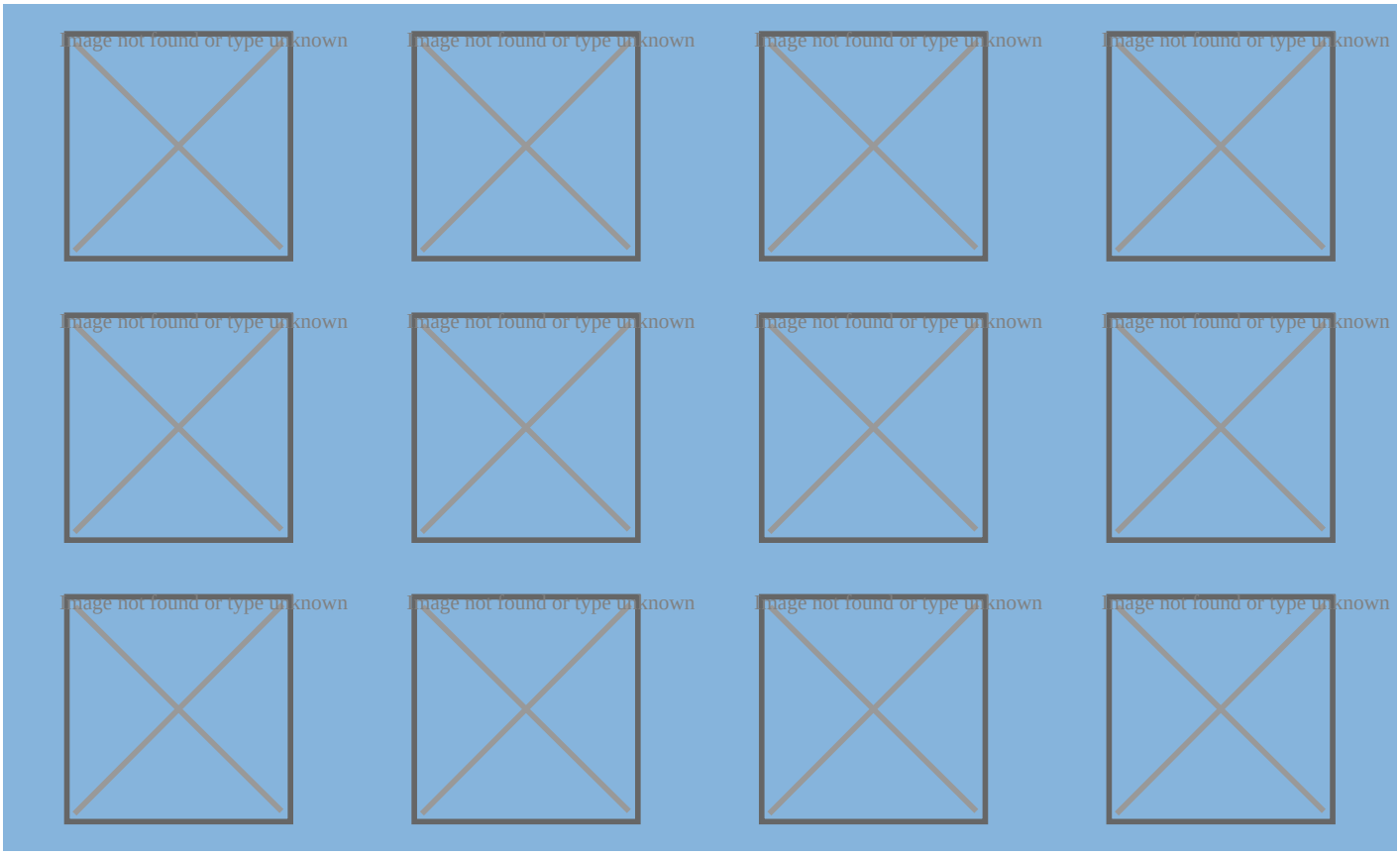
Multi-storey Apartment Building Prefabricated building Sede aziendale Timber apartment block

Localization: Fiorano Modenese

Intended use: Factories

Architetural and structural design:

Total area: 1700ft



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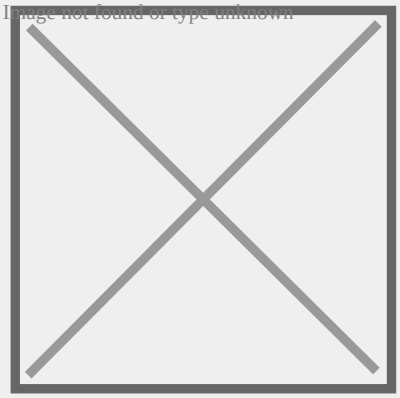
BUILDING SYSTEM

Laminated and Solid



Reasons for choosing the Laminated and Solid system

This construction system guarantees **the creation of timber roofs of various sizes and of different levels of complexity** in compliance with specific static loading calculations and transferring vertical and horizontal loads to the foundations by means of conventional building elements, in certain cases.

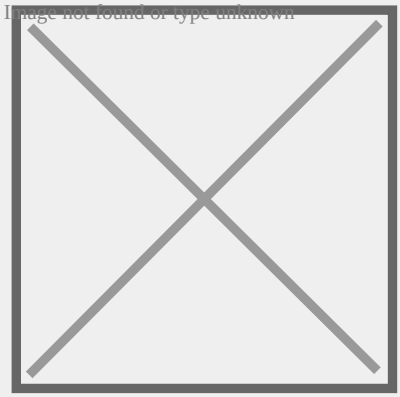
A durable and versatile timber roof

The unique characteristic of laminated wood and the connections between the various elements make it possible to create roof spans of more than 30 metres and **to build roofs of very large surface areas without having to break up the ground plan of the building with awkward intermediate pillars.**

High levels of insulation and strength

Depending on the thermal requirements, the **roof** can be completed with an insulating package and outer covering. The joists of the web roof structure can be designed in accordance with a very diverse range of geometries: the ridge beam establishes the shape of the roof while the wall plate beam can be adapted to match architectural, static or application requirements. The nodes of the web support structure can be created with metal plates fastened to the wood with screws and pins, with wood to wood joints, or by means of direct fastening with normal screws or full-threaded screws. Because they are extremely slender elements, timber joists or rafters must be braced with timber or steel elements designed to prevent the occurrence of lateral out-of-plane instability.

XLAM



Reasons for choosing the Xlam system

The Xlam system is a technical innovation in the construction of timber homes and buildings. The system's exceptional versatility allows the creation of a wide range of architectural constructions, including multi-storey **timber buildings**. The system assures **optimal thermal insulation** and a high level **of fire resistance**, a fast drying process and exceptional **acoustic insulation**.

About the Xlam system

The Xlam panel is composed of crossed layers bonded together, making the construction system extremely **versatile**. Composed of 99.4% timber and 0.6% adhesives, Xlam is considered to be a monolithic material **capable of supporting very high loads and withstanding external stresses and seismic activity**.

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